

conjunction with Fig. 2".

On page 52, line 9, after the word Fig., delete "3 in conjunction with Fig. 4" and insert --2--.

In the claims:

Amend claim 1:

1. (Amended) A process for synthesizing photo-curable poly(ethynyl)carbosilane comprising the steps of:
a. mixing dichlorosilane and trichlorosilane reagents; b. adding sub-stoichiometric amounts of alkali metal; and c. adding [excess] sodium acetylide in excess of stoichiometry.

Amend claim 2:

2. (Amended) A process for synthesizing photo-curable poly(ethynyl)carbosilane comprising the steps of:
a. mixing dichlorosilane and trichlorosilane reagents in the presence of methylene bromide;
b. adding sub-stoichiometric amounts of alkali metal; and
c. adding [excess] sodium acetylide in excess of stoichiometry.

Amend claim 3:

3. (Amended) A process for synthesizing photocurable poly(ethynyl) carbosilane comprising the steps of:
a. mixing dichlorosilane and trichlorosilane reagents in the presence of methylene bromide;

- b. adding sub-stoichiometric amounts of sodium metal; and
- c. adding [excess] sodium acetylide in excess of stoichiometry.

Amended claims:

1. A process for synthesizing photo-curable poly(ethynyl) carbosilane comprising the steps of:
 - a. mixing dichlorosilane and trichlorosilane reagents; b. adding sub-stoichiometric amounts of alkali metal; and c. adding sodium acetylide in excess of stoichiometry.
2. A process for synthesizing photo-curable poly(ethynyl) carbosilane comprising the steps of:
 - a. mixing dichlorosilane and trichlorosilane reagents in the presence of methylene bromide;
 - b. adding sub-stoichiometric amounts of alkali metal; and
 - c. adding sodium acetylide in excess of stoichiometry.
3. A process for synthesizing photocurable poly(ethynyl) carbosilane comprising the steps of:
 - a. mixing dichlorosilane and trichlorosilane reagents in the presence of methylene bromide;
 - b. adding sub-stoichiometric amounts of sodium metal; and
 - c. adding sodium acetylide in excess of stoichiometry.